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## INTRODUCTION

**TRITON** range of data loggers use a new data logging architecture that allows the user to monitor pressure/flow inputs in terms of average values based on typical 15 minute logging rate plus minimum/ maximum values based on fast sample rates down to 1 second.

**TRITON** range of loggers store data in **non-volatile** memory organised into data files. Each data file is an independent data logger with its own start/stop time, sample rate and logging rate. More than one data file can record different types of data for the same input channel. Different types of data include Average, Instantaneous, Minimum, Maximum etc. The memory register size has been increased to overcome register overflows associated with high pulse rates on Flow inputs.

Pressure measurement accuracy is optimised by venting the built in pressure sensors to atmosphere and using multi point calibration. Logged data can be re-calibrated before, during or after the recording by recalibrating the pressure transducer to the logger.

Local communications is via a fast non-contact IrDA communications link (115,200 baud). The logger software can also be upgraded in the field via the IrDA communications link.

**TRITON I PF** is completely waterproof, submersible and battery powered with a typical battery life of 10 years.

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## APPLICATIONS

**TRITON I PF** data loggers can be used for many water applications, including:

1. Leakage flow-monitoring
2. Step Testing
3. Pressure/PRV monitoring
4. Hydraulic network analysis
5. Pressure surge Detection
6. Rainfall monitoring
7. Pump ON/OFF times
8. Minimum Night Flow analysis.





# TRITON I PF data Logger

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## Pressure/Analogue Inputs

TRITON I PF can accept analogue inputs from transducers including:

Pressure transducers: 1 to 40 Bar

## Digital Inputs

Pulse rate up to 400 pulses per second

TRITON I PF can operate with many flow meter sensors including ones from.

**GCR: Solid State: LP10, HP100**

**Elster:** PSM, MSM, LRP, HRP, BPG20, Q4000

**Actaris:** Cyble LF, Cyble HF

**Sensus:** RD01, OPTO 06, OD 07

**ABB:** MagMaster, AquaProbe, AquaMaster

**Quadrina:** MPT, MEP, QEP

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## Logging and Communications

**Memory:** 1 M Bytes organised into 8 separate data files of 64000 reading each. Block or Cyclic – Start/Stop

**Memory Type:** Flash non-volatile memory. Data is retained for 10 years if battery power fails.

**Sampling Rate:** 1 second to 24 hours

**Logging Rate:** 1 second to 24 hours

**Logged data types:** Average, Instantaneous, Minimum, Maximum

**Flow Logging Modes:** Count, Pulse Interval Timing

**Communications:** IrDA – Baud Rate of 115,200 Baud

## Physical

**Case Dimensions:** 130L x 65W x 55D

**Construction:** Stainless steel enclosure powder coated (IP68 submersible)

**Weight:** xxxg

**Operating temperature:** -20 to + 70 degree Celsius (-5 to + 160 degree F)

**Logger range:** 1 to 3 channels selectable from 2-Flow and 1- Pressure/Analogue